

GRUB ISO

ISO

<https://forums.gentoo.org/viewtopic-t-1167284-start-0.html>

/etc/grub.d/41_custom

```
#!/bin/sh
cat <<EOF
if [ -f \${config_directory}/custom.cfg ]; then
    source \${config_directory}/custom.cfg
elif [ -z "\${config_directory}" -a -f \${prefix}/custom.cfg ]; then
    source \${prefix}/custom.cfg
fi
EOF

ADD_CMND_LINE="iso-scan/filename"
ISO_DIR="/boot/grub/iso-images"
ISO_REAL_DIR="/boot/grub/iso-images"
# If the ISO files are on the root filesystem (`/`), then ISO_REAL_DIR
equals ISO_DIR.
# Otherwise, ISO_REAL_DIR must reflect the path relative to the root of the
partition returned by `grub-probe`.

ISO_MNT_DIR="/media"
FS_UUID=$(grub-probe --target=fs_uuid $ISO_DIR)

n=1;
nn=1
IFS_OLD=$IFS
IFS=$'\n'
for iso in $ISO_DIR/*.iso; do
    [ "$iso" = "$ISO_DIR/*.iso" ] && break
    mount -o loop,ro $iso $ISO_MNT_DIR
    for cmd in $(grep -E '^menuentry|/boot/'
$ISO_MNT_DIR/boot/grub/grub.cfg); do
        if echo $cmd | grep -q "^menuentry"; then
MENUENTRY[n]="$cmd"; fi
            if echo $cmd | grep -q "linux /"; then
                ISO_IMAGE[n]=$(basename ${iso})
                LINUX[n]="$cmd
${ADD_CMND_LINE}=${ISO_REAL_DIR}/${ISO_IMAGE[n]}"
                fi
            if echo $cmd | grep -q "initrd"; then INITRD[n]="$cmd";
n=$((n+1)); fi
        done
    umount $ISO_MNT_DIR
done
```

```
SUB=""
MENU="${ISO_IMAGE[nn]}"
while [ "$nn" != "$n" ]
do
    [ "$iso" = "$ISO_DIR/*.iso" ] && break
    if [ "$MENU" != "${ISO_IMAGE[nn]}" ]; then
        SUB=""
        echo "}"
    fi
    if [ -z "$SUB" ]; then
        echo "submenu '${ISO_IMAGE[nn]}' {"
        SUB="1"
        MENU="${ISO_IMAGE[nn]}"
    fi
    echo -e "\t${MENUENTRY[nn]}"
    echo -e "\t\tsearch --fs-uuid --set=root $FS_UUID"
    echo -e "\t\tloopback loop ${ISO_REAL_DIR}/${ISO_IMAGE[nn]}"
    echo -e "\t\tset root=(loop)"
    echo -e "\t${LINUX[nn]}"
    echo -e "\t${INITRD[nn]}"
    echo -e "\t}"
    nn=$((nn+1))
done
[ "$iso" != "$ISO_DIR/*.iso" ] && echo "}"
IFS=$IFS_OLD
```

grub-mkconfig -o /boot/grub/grub.cfg

```
### BEGIN /etc/grub.d/41_custom ###
if [ -f ${config_directory}/custom.cfg ]; then
    source ${config_directory}/custom.cfg
elif [ -z "${config_directory}" -a -f $prefix/custom.cfg ]; then
    source $prefix/custom.cfg
fi
submenu 'livegui-rescue-2026.iso' {
    menuentry 'Boot LiveCD (kernel: gentoo)' --class gnu-linux --class
os {
        search --fs-uuid --set=root b652a7f5-3763-4ebd-a411-
d348b2bf33e6
        loopback loop /boot/grub/iso-images/livegui-rescue-2026.iso
        set root=(loop)
        linux /boot/gentoo nodhcp secureconsole
root=live:CDLABEL=gentoo-amd64-livegui rd.live.dir=/
rd.live.squashimg=image.squashfs cdroot iso-scan/filename=/boot/grub/iso-
images/livegui-rescue-2026.iso
        initrd /boot/gentoo.igz
    }
    menuentry 'Boot LiveCD (kernel: gentoo) (cached)' --class gnu-linux
```

```
--class os {
    search --fs-uuid --set=root b652a7f5-3763-4ebd-a411-
d348b2bf33e6
    loopback loop /boot/grub/iso-images/livegui-rescue-2026.iso
    set root=(loop)
    linux /boot/gentoo nodhcp secureconsole
root=live:CDLABEL=gentoo-amd64-livegui rd.live.dir=/
rd.live.squashimg=image.squashfs cdroot rd.live.ram=1 iso-
scan/filename=/boot/grub/iso-images/livegui-rescue-2026.iso
    initrd /boot/gentoo.igz
}
}
### END /etc/grub.d/41_custom ###
```

From:

<https://www.gamu.kr/dokuwiki/> -

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https://www.gamu.kr/dokuwiki/gentoo/trouble/03-direct_iso_boot_use_grub?rev=1768001235

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